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Appl. No. 10/519,107

Reply to Office Action of August 22, 2007

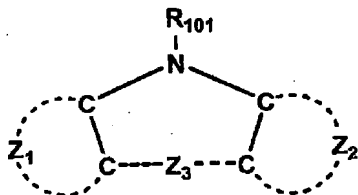
Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An organic electroluminescent element comprising a pair of electrodes having therebetween at least one constituting layer containing a phosphorescent light emitting layer, wherein one of the constituting layer contains a compound represented by Formula (1):

Formula (1)



wherein Z₁ represents an aromatic heterocyclic ring which may have a substituent; Z₂ represents an aromatic heterocyclic ring which may have a substituent or an aromatic hydrocarbon ring which may have a substituent; Z₃ represents a divalent linking

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group or a single bond; and R_{101} represents a hydrogen atom or a substituent.

2. **(Original)** The organic electroluminescent element of claim 1, wherein Z_1 of the compound represented by Formula (1) is a 6-membered ring.

3. **(Previously presented)** The organic electroluminescent element of claim 1, wherein Z_2 of the compound represented by Formula (1) is a 6-membered ring.

4. **(Previously presented)** The organic electroluminescent element of claim 1, wherein Z_3 of the compound represented by Formula (1) is a single bond.

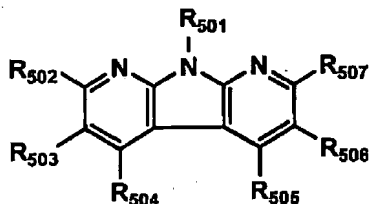
5. **(Previously presented)** The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) has a molecular weight of 450 or more.

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6. (Previously presented) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-1):

Formula (1-1)



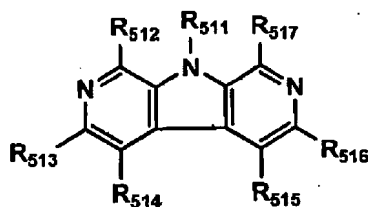
wherein R₅₀₁ - R₅₀₇ each independently represents a hydrogen atom or a substituent.

7. (withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-2):

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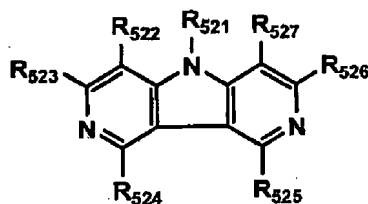
Formula (1-2)



wherein R₅₁₁ - R₅₁₇ each independently represents a hydrogen atom or a substituent.

8. (Previously presented) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-3):

Formula (1-3)



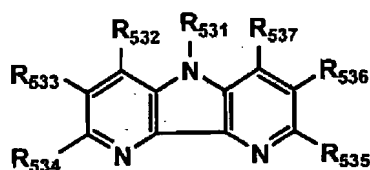
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wherein R_{521} - R_{527} each independently represents a hydrogen atom or a substituent.

9. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-4):

Formula (1-4)



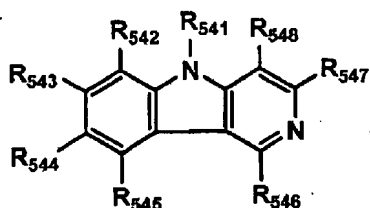
wherein R_{531} - R_{537} each independently represents a hydrogen atom or a substituent.

10. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-5):

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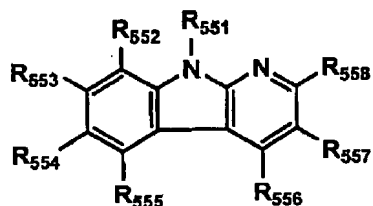
Formula (1-5)



wherein R₅₄₁ - R₅₄₈ each independently represents a hydrogen atom or a substituent.

11. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-6):

Formula (1-6)



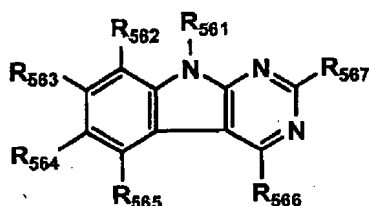
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wherein R₅₅₁ - R₅₅₈ each independently represents a hydrogen atom or a substituent.

12. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-7):

Formula (1-7)



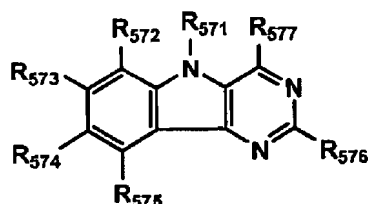
wherein R₅₆₁ - R₅₆₇ each independently represents a hydrogen atom or a substituent.

13. (withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-8):

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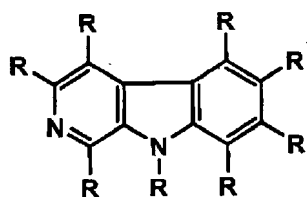
Formula (1-8)



wherein R₅₇₁ - R₅₇₇ each independently represents a hydrogen atom or a substituent.

14. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-9):

Formula (1-9)



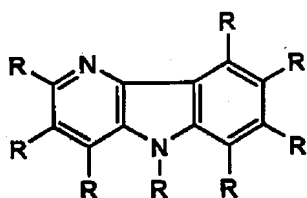
wherein each R represents a hydrogen atom or a substituent and a plurality of R may be the same or may be different from each other.

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15. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (1-10):

Formula (1-10)



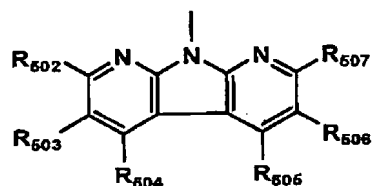
wherein each R represents a hydrogen atom or a substituent and a plurality of R may be the same or may be different from each other.

16. (Previously presented) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) has at least one of groups represented by Formulae (2-1) to (2-8):

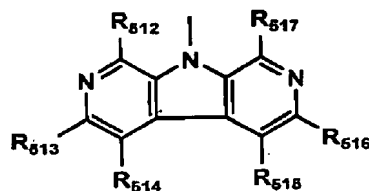
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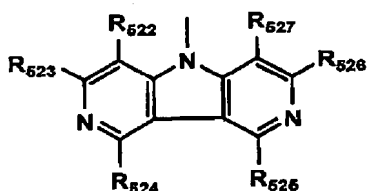
Formula (2-1)



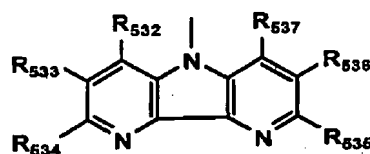
Formula (2-2)



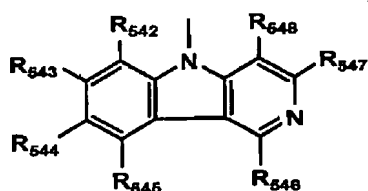
Formula (2-3)



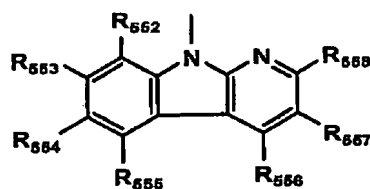
Formula (2-4)



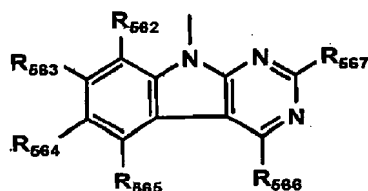
Formula (2-5)



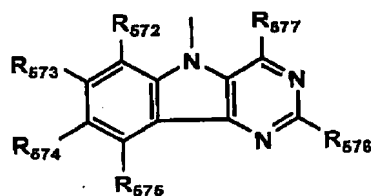
Formula (2-6)



Formula (2-7)



Formula (2-8)



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wherein .

(a) in Formula (2-1), R_{502} - R_{507} each independently represents a hydrogen atom or a substituent;

(b) in Formula (2-2), R_{512} - R_{517} each independently represents a hydrogen atom or a substituent;

(c) in Formula (2-3), R_{522} - R_{527} each independently represents a hydrogen atom or a substituent;

(d) in Formula (2-4), R_{532} - R_{537} each independently represents a hydrogen atom or a substituent;

(e) in Formula (2-5), R_{542} - R_{548} each independently represents a hydrogen atom or a substituent;

(f) in Formula (2-6), R_{552} - R_{558} each independently represents a hydrogen atom or a substituent;

(g) in Formula (2-7), R_{562} - R_{567} each independently represents a hydrogen atom or a substituent; and

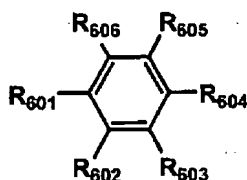
(h) in Formula (2-8), R_{572} - R_{577} each independently represents a hydrogen atom or a substituent.

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17. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (3):

Formula (3)



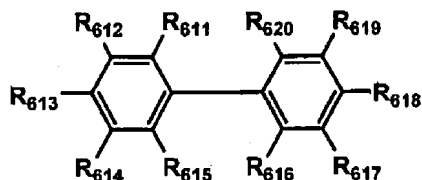
wherein R₆₀₁ - R₆₀₆ each independently represents a hydrogen atom or a substituent and at least one of R₆₀₁ - R₆₀₆ is represented by one of Formulae (2-1) to (2-4).

18. (Currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (4):

Formula (4)

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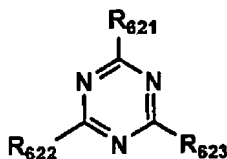
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wherein R_{611} - R_{620} each independently represents a hydrogen atom or a substituent and at least one of R_{611} - R_{620} is represented by one of Formulae (2-1) to (2-4).

19. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (5) [[.]] :

Formula (5)



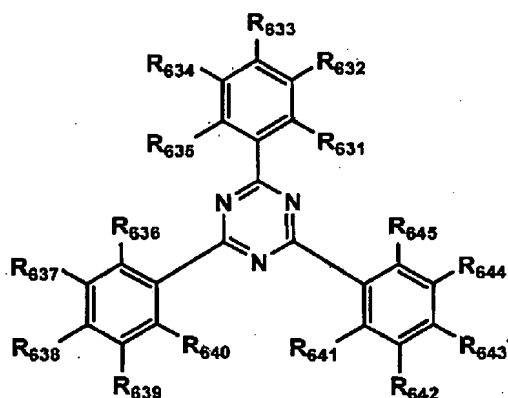
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wherein R_{621} - R_{623} each independently represents a hydrogen atom or a substituent and at least one of R_{621} - R_{623} is represented by one of Formulae (2-1) to (2-4).

20. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (6):

Formula (6)



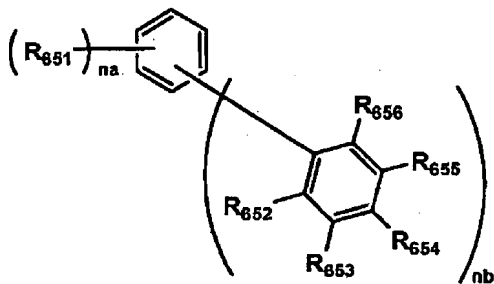
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wherein R_{631} - R_{645} each independently represents a hydrogen atom or a substituent and at least one of R_{631} - R_{645} is represented by one of Formulae (2-1) to (2-4).

21. (Currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (7):

Formula (7)



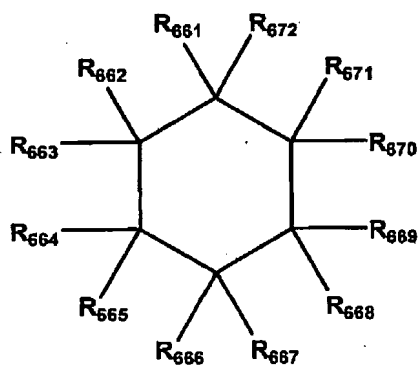
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wherein R_{651} - R_{656} each independently represents a hydrogen atom or a substituent and at least one of R_{651} - R_{656} is represented by one of Formulae (2-1) to (2-4); n_a represents an integer of 0 to 5; and n_b represents an integer of 1 to 6, provided that a sum of n_a and n_b is 6.

22. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (8):

Formula (8)



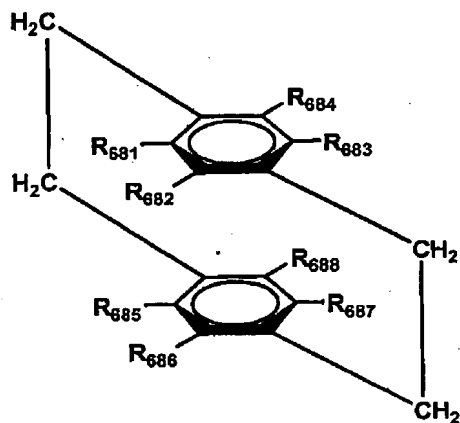
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wherein R_{661} - R_{672} each independently represents a hydrogen atom or a substituent and at least one of R_{661} - R_{672} is represented by one of Formulae (2-1) to (2-4).

23. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (9):

Formula (9)



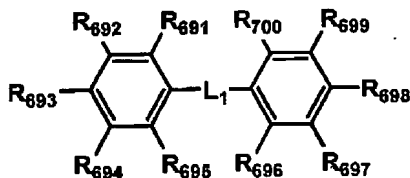
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wherein R_{681} - R_{688} each independently represents a hydrogen atom or a substituent and at least one of R_{681} - R_{688} is represented by one of Formulae (2-1) to (2-4).

24. (Withdrawn - currently amended) The organic electroluminescent element of claim [[1]] 16, wherein the compound represented by Formula (1) is further represented by Formula (10):

Formula (10)



wherein R_{691} - R_{700} each independently represents a hydrogen atom or a substituent and at least one of R_{691} - R_{700} is

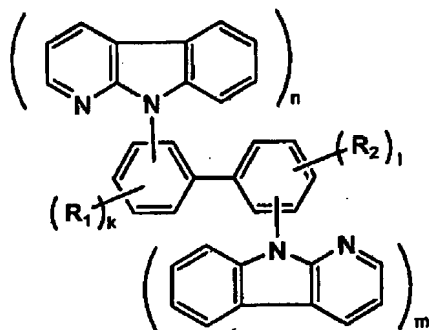
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represented by one of Formulae (2-1) to (2-4); and L_1 represents a divalent linking group.

25. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (11):

Formula (11)



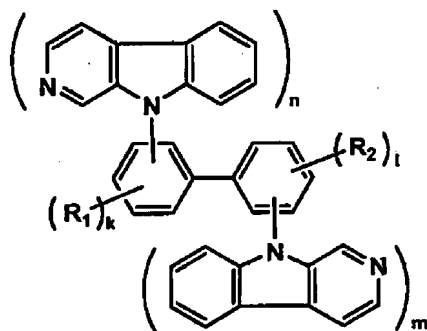
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wherein R_1 and R_2 each independently represents a hydrogen atom or a substituent; n and m each represents an integer of 1 to 2; and k and l each represents an integer of 3 to 4, provided that $n + k = 5$ and $l + m = 5$.

26. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (12):

Formula (12)



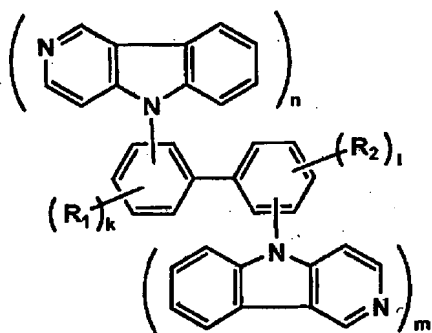
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wherein R_1 and R_2 each independently represents a hydrogen atom or a substituent; n and m each represents an integer of 1 to 2; and k and l each represents an integer of 3 to 4, provided that $n + k = 5$ and $l + m = 5$.

27. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (13):

Formula (13)



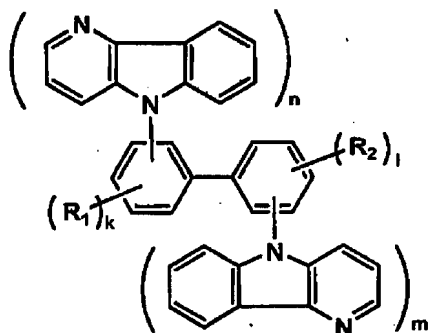
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wherein R_1 and R_2 each independently represents a hydrogen atom or a substituent; n and m each represents an integer of 1 to 2; and k and l each represents an integer of 3 to 4, provided that $n + k = 5$ and $l + m = 5$.

28. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (14):

Formula (14)



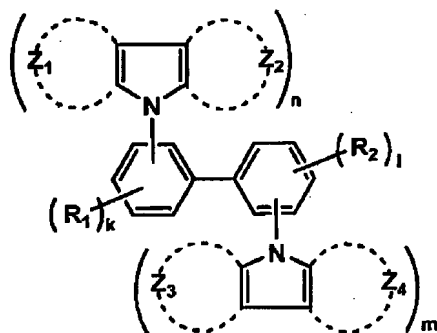
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wherein R_1 and R_2 each independently represents a hydrogen atom or a substituent; n and m each represents an integer of 1 to 2; and k and l each represents an integer of 3 to 4, provided that $n + k = 5$ and $l + m = 5$.

29. (Previously presented) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (15):

Formula (15)



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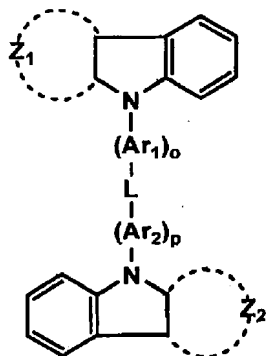
wherein R_1 and R_2 each independently represents a hydrogen atom or a substituent; n and m each represents an integer of 1 to 2; k and l each represents an integer of 3 to 4, provided that $n + k = 5$ and $l + m = 5$; and Z_1 , Z_2 , Z_3 and Z_4 each represent a 6-membered aromatic heterocyclic ring containing a nitrogen atom.

30. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (16):

Formula (16)

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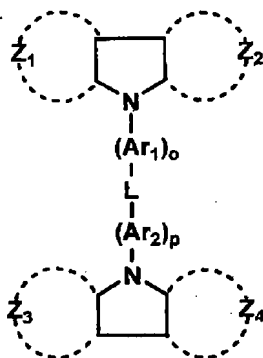
wherein o and p each represents an integer of 1 to 3; Ar₁ and Ar₂ each represents an arylene group or a divalent aromatic heterocyclic group; Z₁ and Z₂ each represents a 6-membered aromatic heterocyclic ring containing a nitrogen atom; and L represents a divalent linking group.

31. (Withdrawn) The organic electroluminescent element of claim 1, wherein the compound represented by Formula (1) is further represented by Formula (17):

Formula (17)

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wherein o and p each represents an integer of 1 to 3; Ar_1 and Ar_2 each represents an arylene group or a divalent aromatic heterocyclic group; Z_1 , Z_2 , Z_3 and Z_4 each represents a 6-membered aromatic heterocyclic ring containing a nitrogen atom; and L represents a divalent linking group.

32. (Previously presented) The organic electroluminescent element of claim 1, wherein the light emitting layer contains the compound represented by Formula (1).

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33. (Previously presented) The organic electroluminescent element of claim 1, wherein at least one of the constituting layers is a hole blocking layer and the hole blocking layer contains the compound represented by Formula (1).

34. (Previously presented) The organic electroluminescent element of claim 1 which emits blue light.

35. (Previously presented) The organic electroluminescent element of claim 1 which emits white light.

36. (Previously presented) A display device having the organic electroluminescent element of claim 1.

Claims 37-63 (Canceled).

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ELECTION

- (1) Invention of Group 3.
- (2) Species of Group 12.
- (3) Claims readable on elected species: Claims 1 to 5, 8, 16, 18, 21, 29, and 32 to 36.
- (4) The requirement did not appear to require the identification of a single compound. If this is not correct, applicants elect compound 9 on page 50.